

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

6460.2  
CHG 24

9/25/97

ELECTRONIC EQUIPMENT MODIFICATION HANDBOOK - NEXT GENERATION WEATHER  
SUBJ: RADAR (NEXRAD)

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CHAPTER 24. REPLACEMENT OF THE HIGH VOLTAGE  
CABLES IN THE TRANSMITTER

1. **PURPOSE.** This modification provides instructions to replace the existing high voltage cables between UD3A11 to UD3A12, and UD3A12 to UD3A8 with high voltage cables, part numbers 2210002-201 and 2210002-202, to eliminate a cable failure problem. This directive implements Engineering Change Proposal (ECP) F0071-R01A00, Replacement of the High Voltage Cables in the Transmitter.
2. **DISTRIBUTION.** This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.
3. **WITHDRAWALS.** None.
4. **REFERENCES.** None.
5. **BACKGROUND.** The replacement of the high voltage cables will eliminate cable failures, eliminating power not provided to the Transmitter Modulator Pulse Assembly.
6. **APPLICATION.** This modification applies to all FAA WSR-88D Radar Data Acquisition (RDA) sites.
7. **MATERIALS REQUIRED.** The following materials are required to modify each unit and are available in kit form, NSN 6660-K3-117-799A, consisting of the following:

<u>Description</u>	<u>NSN</u>	<u>Part No.</u>	<u>Quantity</u>
a. Cable - 3W900	5995-01-431-3318	2210002-201	2 each
b. Cable - 3W901	5995-01-431-3312	2210002-202	2 each
8. **SOURCE OF MATERIALS.** Kits will be requisitioned by the Operational Support Facility (OSF) Logistics Section and shipped, at no cost to the site, from:

National Logistics Supply Center (NLSC)  
1520 East Bannister Road  
Kansas City, MO 64131
9. **SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED.** None.
10. **MODIFICATION TO BE PERFORMED BY.** Field maintenance personnel or as determined by the regional Airway Facilities division.
11. **WHEN MODIFICATION IS TO BE PERFORMED.** Not later than 60 days after receipt of this directive and kit.
12. **ESTIMATED TIME REQUIRED.** A total of 3.0 man-hours is required per kit to accomplish this modification. The personnel performing this task will have maintenance and test experience with the WSR-88D Transmitter. One technician is required for this procedure.
13. **DISPOSITION OF SURPLUS PARTS.** Dispose of the old high voltage cables, using local disposal procedures.
14. **MODIFICATION PROCEDURES.** See attachment 1.

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Distribution: Selected Airway Facilities Field  
and Regional Offices, ZAF-605

Initiated by: AOS-250

15. **TEST AFTER MODIFICATION.** See attachment 1.
16. **RESULT OF MODIFICATION.** The WSR-88D products supplied to the end user remain the same.
17. **CHANGES TO INSTRUCTION BOOKS.**
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|--------------------------|----------------|
| TI 6460.1 V2 (EHB 6-501) | 15 August 1994 |
| TI 6460.1 V8 (EHB 6-511) | 15 August 1992 |
18. **CHANGES TO INSTALLATION DRAWINGS.** None.
19. **CHANGES TO RECORDED DATA.** Enter this directive number, date, and chapter number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record. Also, complete the attached form, attachment 2, and forward to:
- System Support Branch, Logistics Section  
WSR-88D Operational Support Facility  
3200 Marshall Ave., Suite 101  
Norman, Oklahoma 73072-8028
20. **CHANGES TO TABLE OF CONTENTS.** This chapter will be included in the next revision to the table of contents for Order 6460.2.
21. **RECOMMENDATIONS FOR CHANGES.** Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

George W. Terrell  
Program Director for Operational Support

2 Attachments